



FIG.2

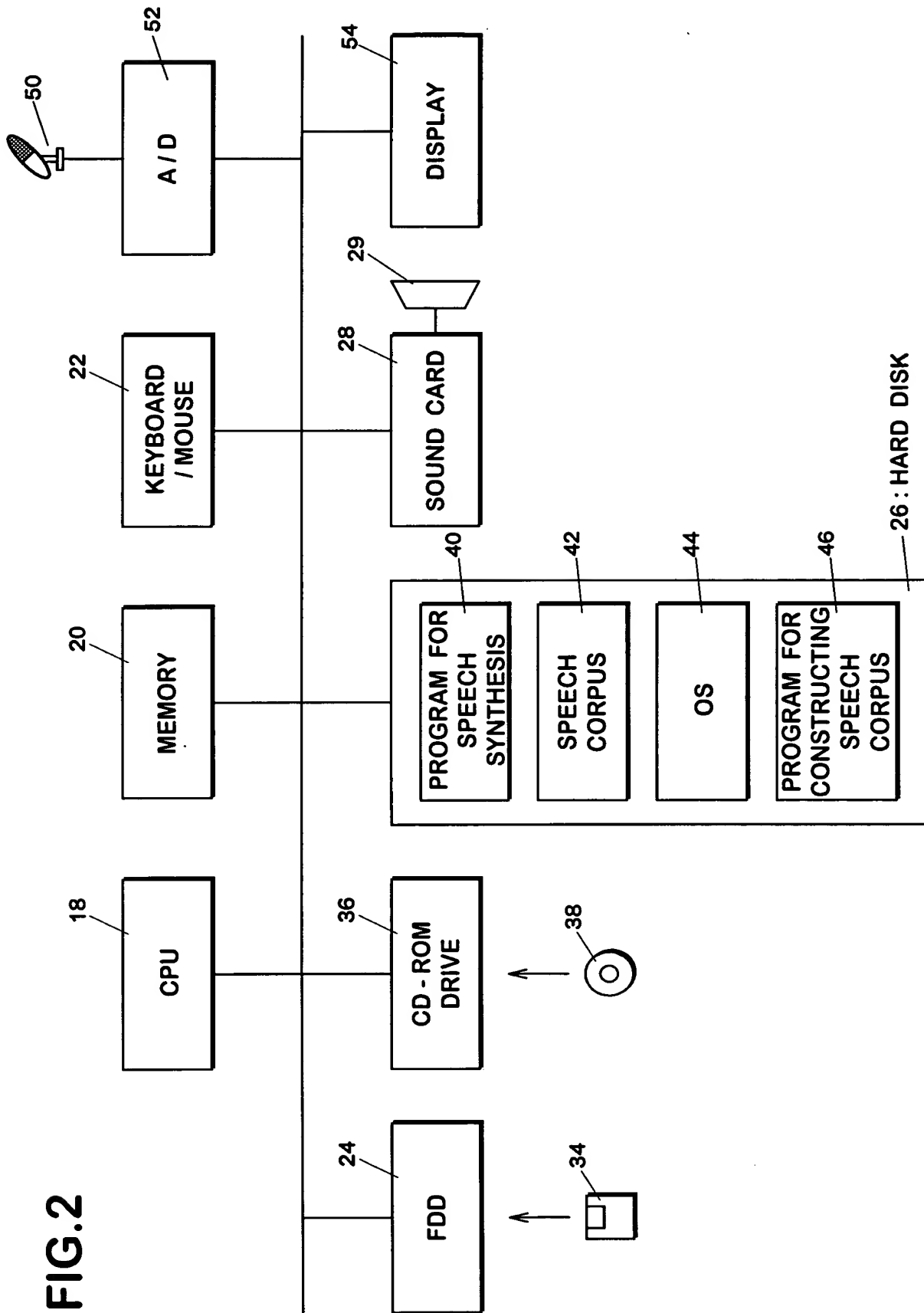
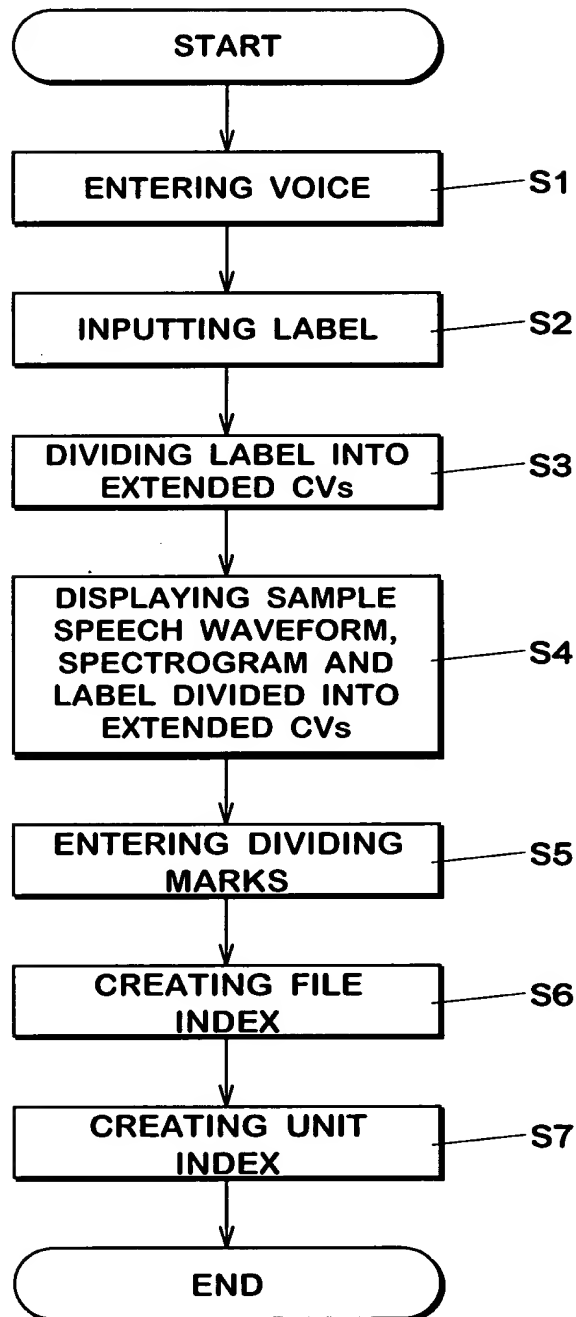


FIG.3

SPEECH CORPUS CONSTRUCTING PROGRAM



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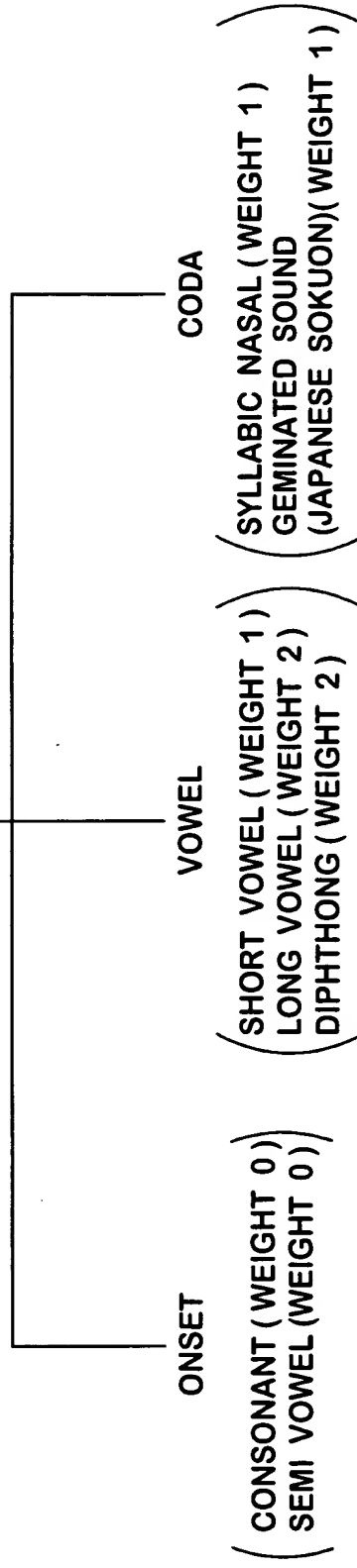
ra i u chu : i ho : ga

**09-06-2017**

FIG.5

CONSTRUCTION OF EXTENDED CV

EXTENDED CV



# FIG.6

SYLLABLE WEIGHT	TYPE OF SYLLABLE WEIGHT	SYLLABLE CONSTRUCTURE	EXAMPLE
1	LIGHT SYLLABLE	(C) (y) V	ka, sa, ta, na, ha, ma, ya, ra,... a, i, u, e, o, .... che, pya,....
2	HEAVY SYLLABLE	(C) (y) VR (C) (y) VJ (C) (y) VN (C) (y) VQ	to: , ya:, kyu:, pyu:,... kai, nou, ai, ui, pyua,... kaN, aN, myaN, chaN,... chuQ, ryaQ, jaQ, hyaQ,...
3 OR MORE	SUPER HEAVY SYLLABLE	(C) (y) VRN (C) (y) VRQ (C) (y) VJN (C) (y) VJQ (C) (y) VNQ AND THE LIKE	che:N, ju:N, a:N, ... u:Q, che:Q,... saiN, pauN, auN, chaiN,... kaiQ, daiQ, kyaiQ, uiQ,... doNQ, uNQ, chaNQ,...

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FIG. 7

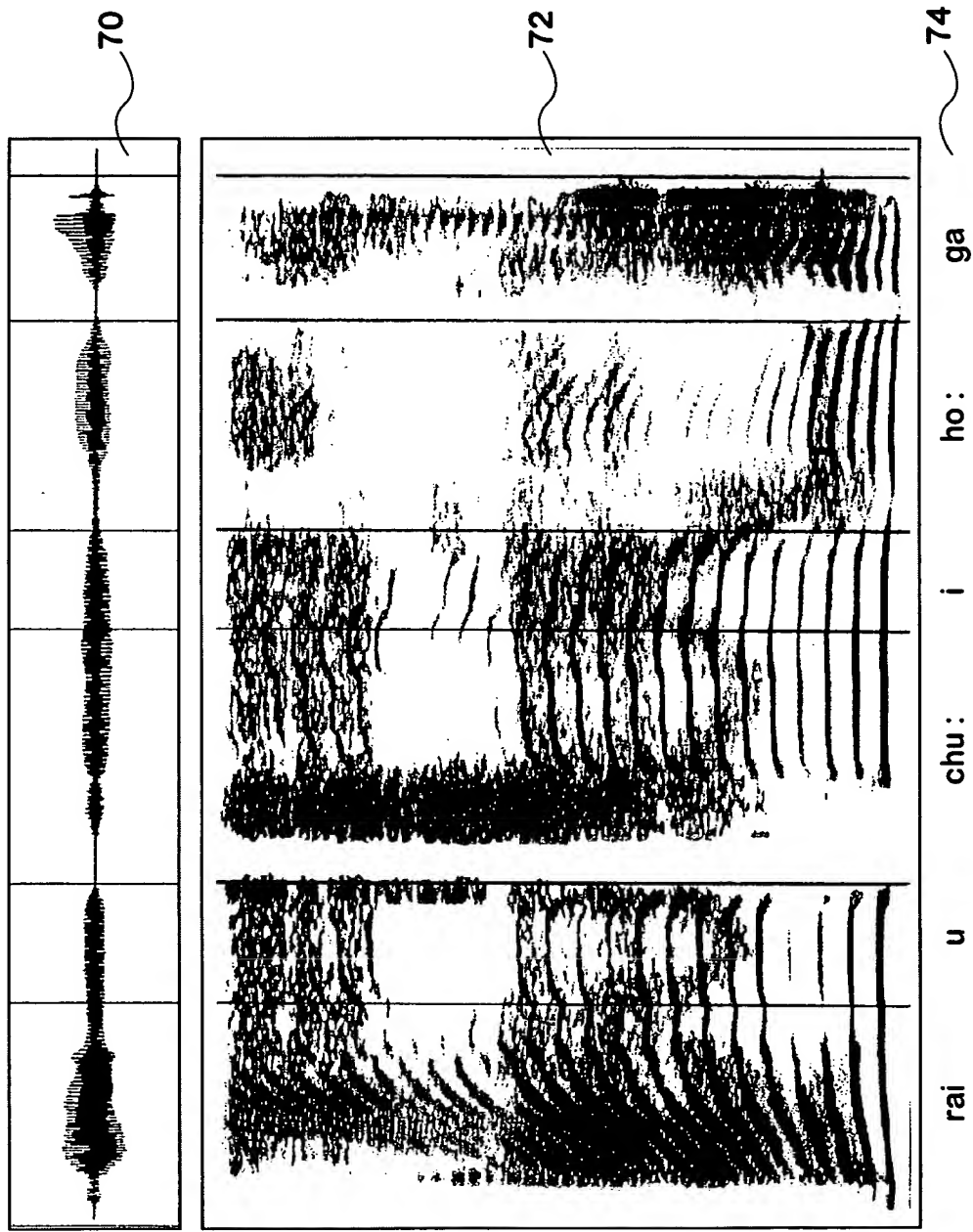






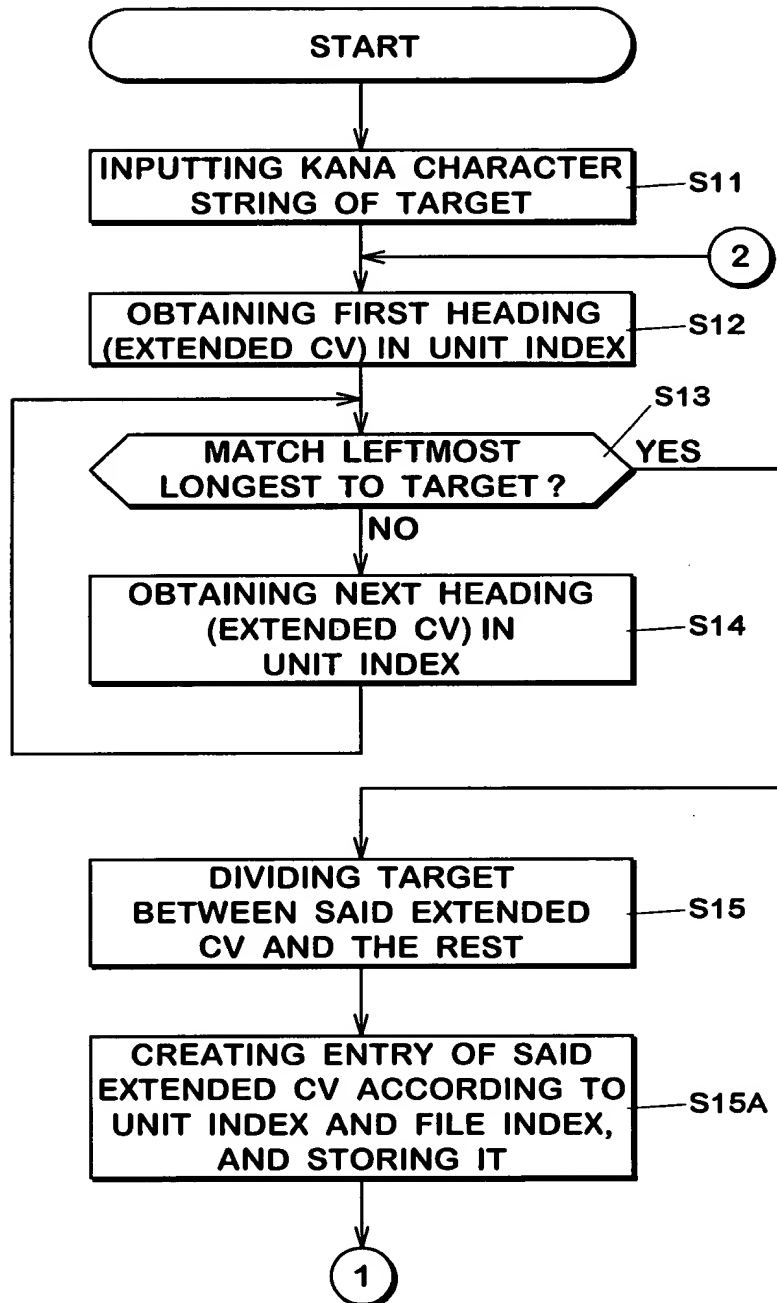
FIG.9

UNIT INDEX

chu :		ko :		zui		ho :		rai		u		ga	
SPEECH		SPEECH		SPEECH		SPEECH		SPEECH		SPEECH		SPEECH	
SOUND FILE		SOUND FILE		SOUND FILE		SOUND FILE		SOUND FILE		SOUND FILE		SOUND FILE	
NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
1		1		1		1		1		1		1	
FILE 1		FILE 1		FILE 1		FILE 1		FILE 1		FILE 1		FILE 1	
FILE 2		FILE 2		FILE 2		FILE 2		FILE 2		FILE 2		FILE 2	

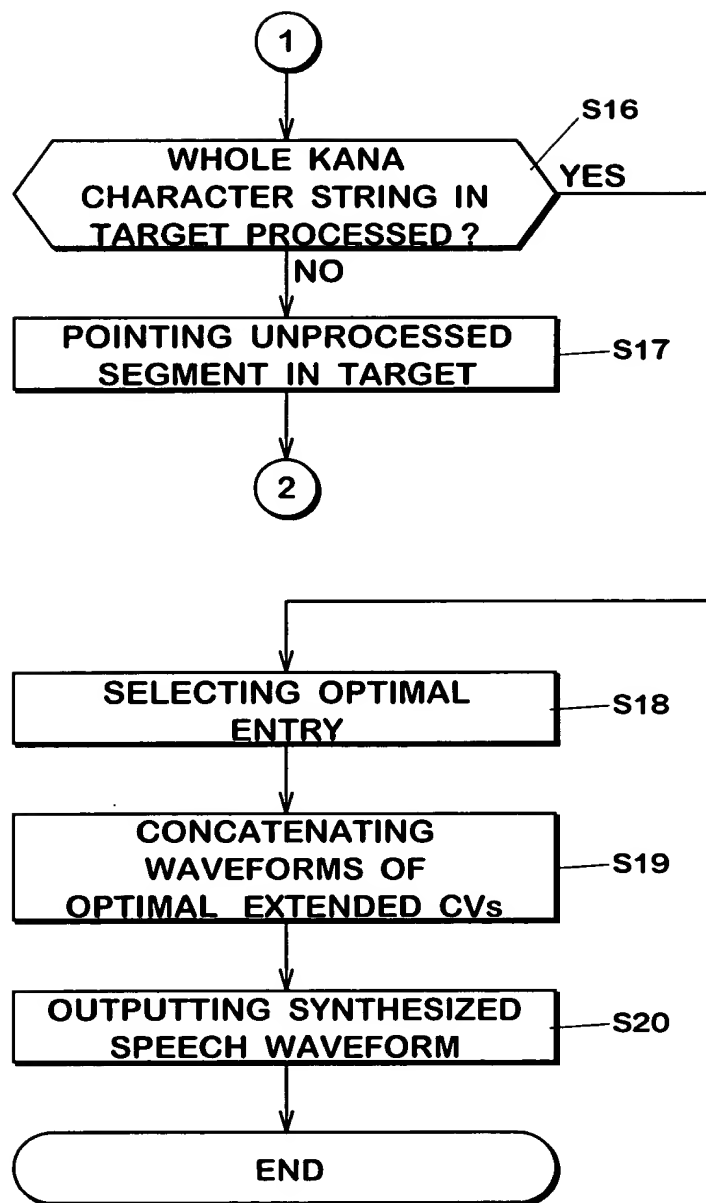
FIG.10

<SPEECH SYNTHESIS PROCESSING PROGRAM>



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FIG.11



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FIG.12A

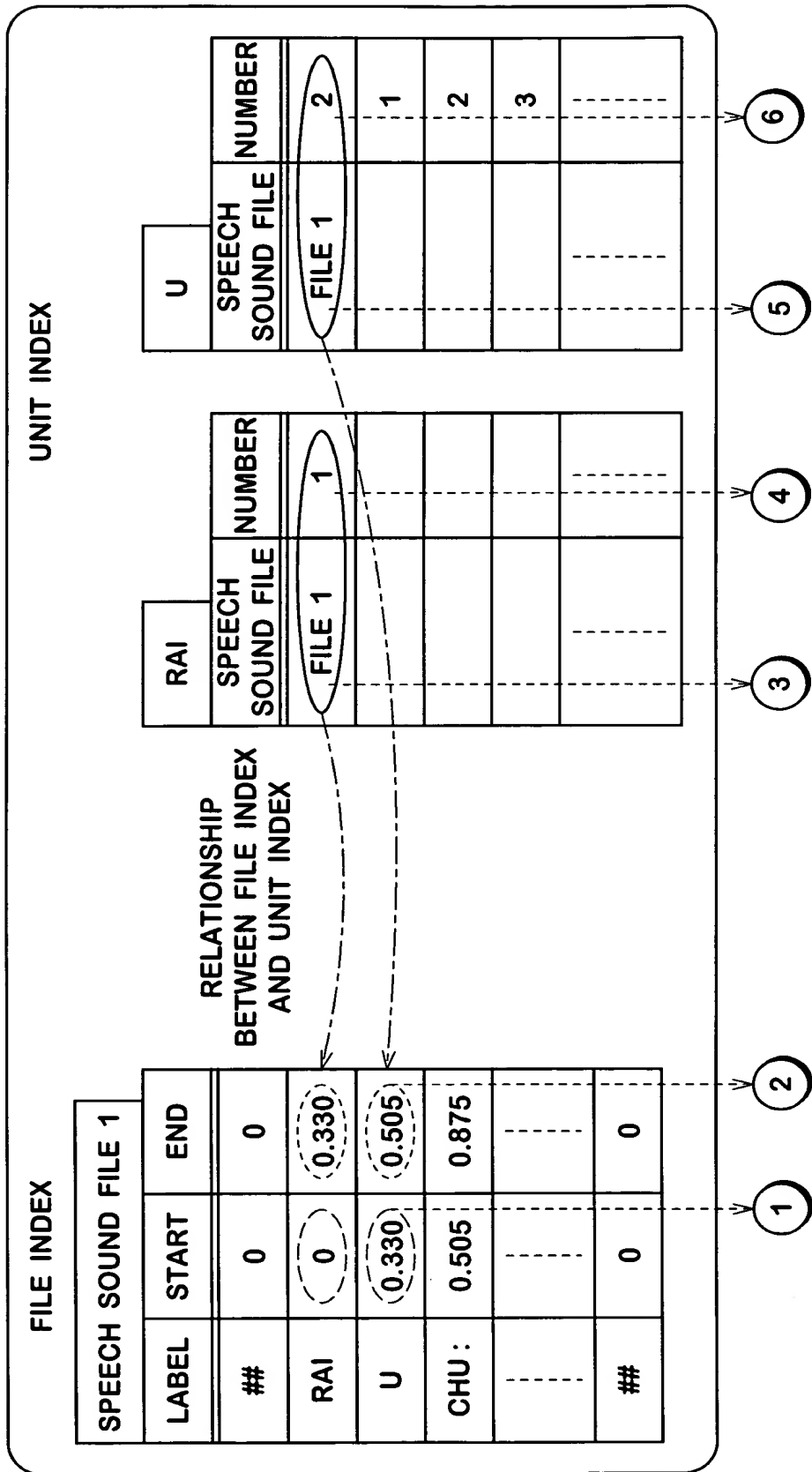




FIG.12C

SELECT THE OPTIMAL SPEECH UNIT WHICH MINIMIZES  
ENVIRONMENT DISTORTION AND CONTINUITY DISTORTION

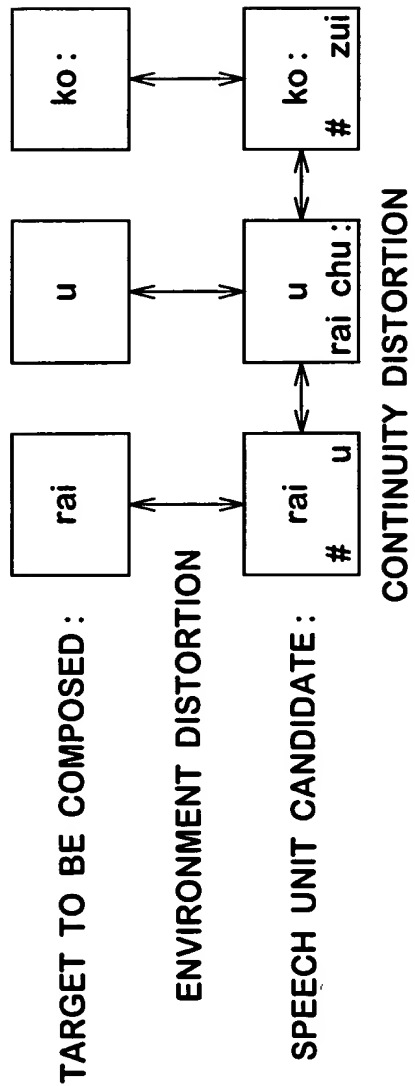
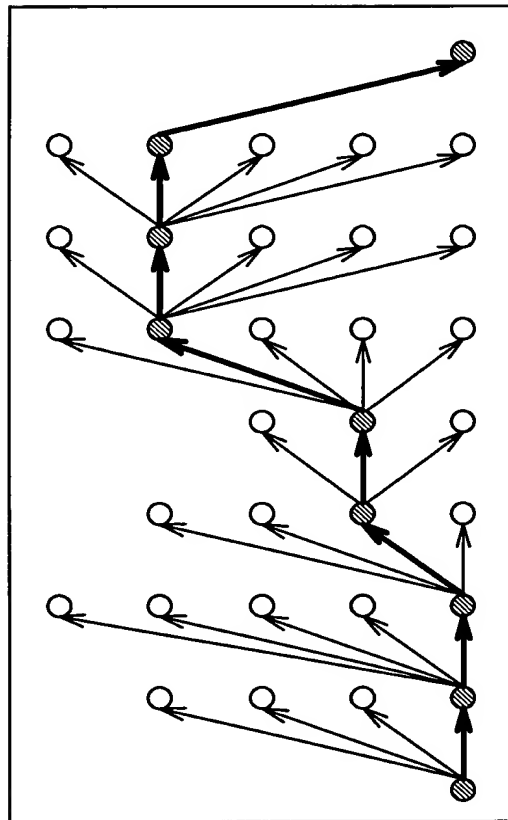


FIG.13

EXTENDED CV  
CANDIDATE



## RA I U KO: ZUI KE: HO: GA ##

SPEECH UNIT SEQUENCE OF THE TARGET TO BE COMPOSED  
( ● IS THE OPTIMAL SPEECH UNIT )  
( → IS THE OPTIMAL SEQUENCE OF SPEECH UNIT CANDIDATES )

FIG.14





FIG.15

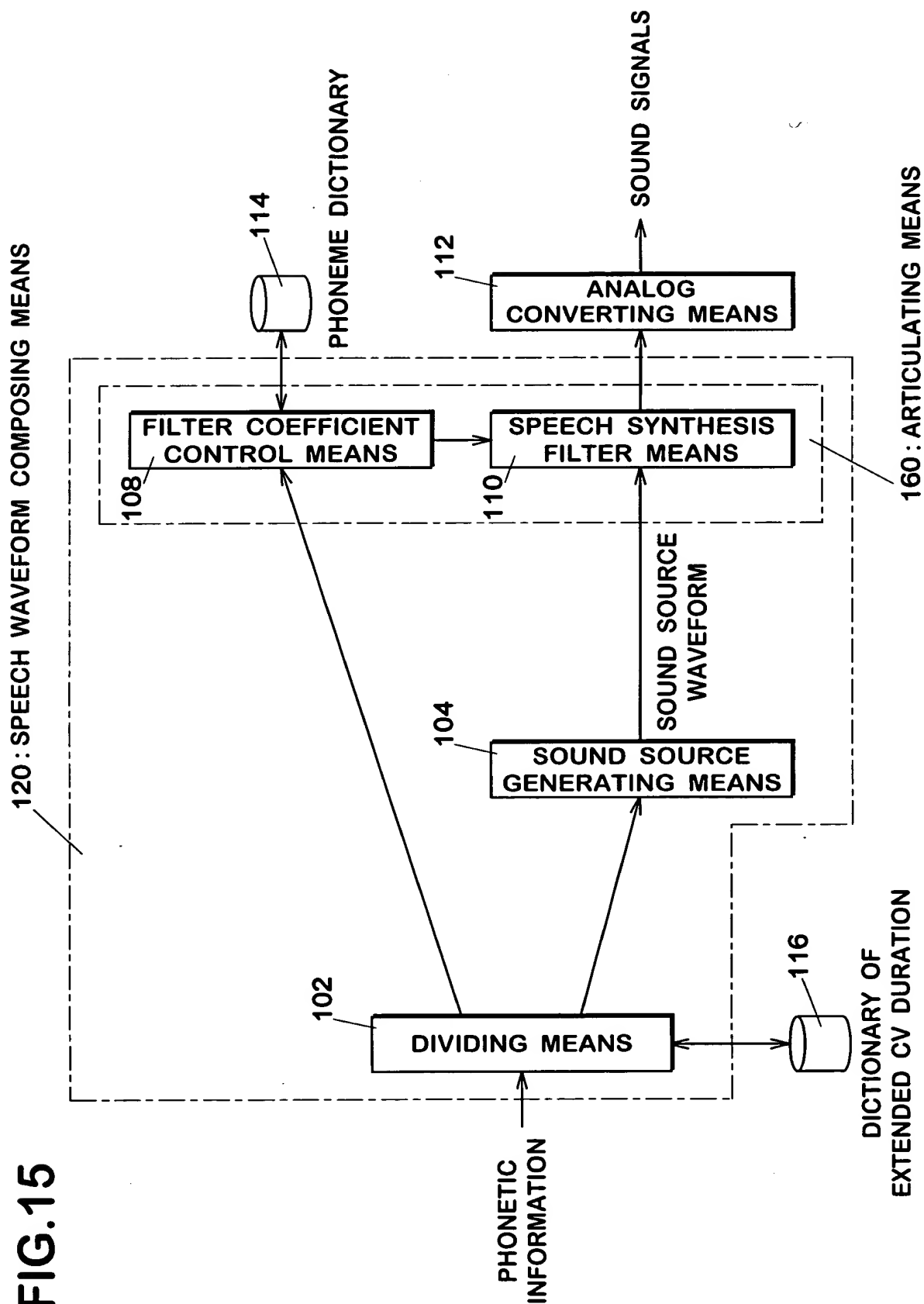


FIG.16

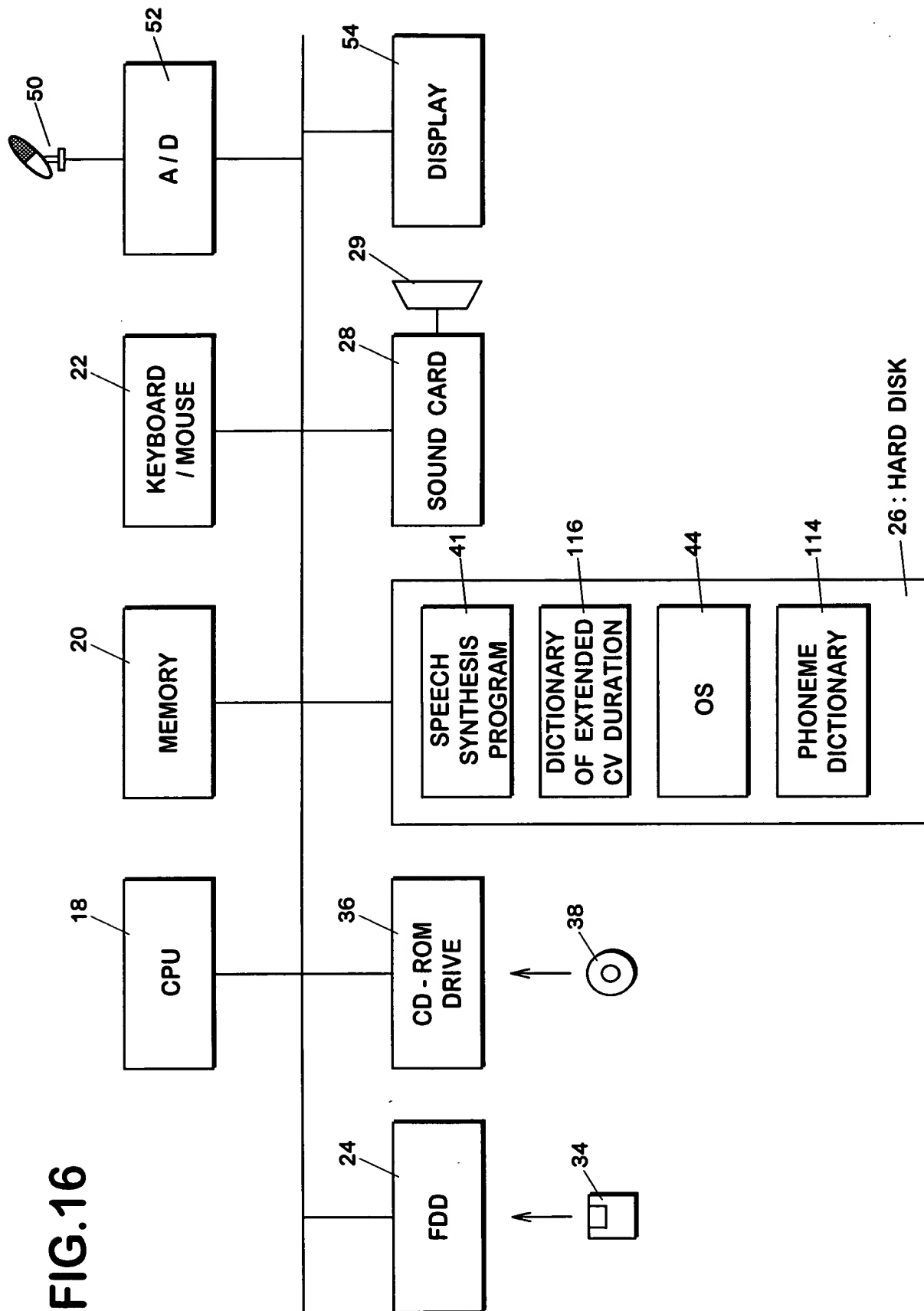
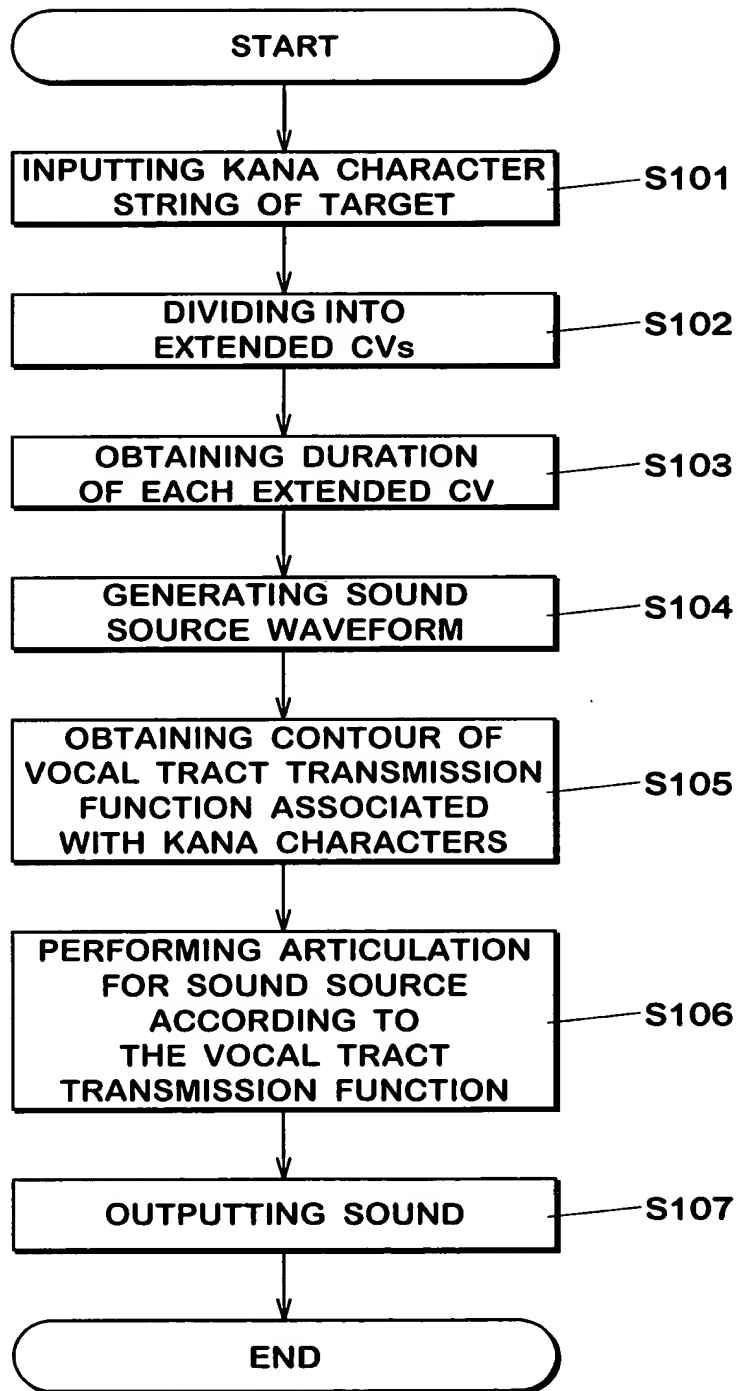


FIG.17

SPEECH SYNTHESIS PROCESSING PROGRAM



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FIG.18

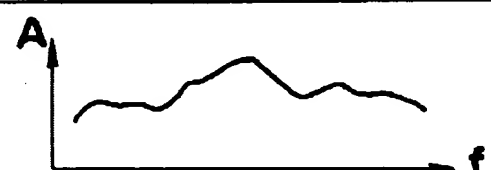
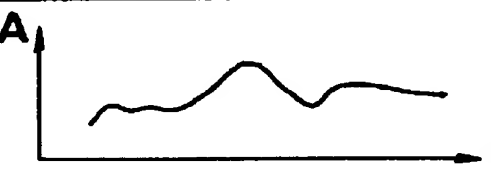
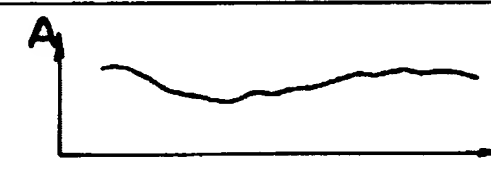
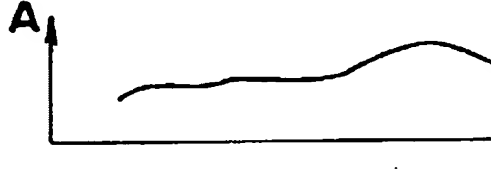
DICTIONARY OF EXTENDED CV DURATION

EXTENDED CV	DURATION : [ MS ]
CHU :	3 9 1
KO :	2 1 3

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# FIG.19

## PHONEME DICTIONARY

EXTENDED CV	TIME	VOCAL TRACT TRANSMISSION CHARACTERISTIC
CHU :	0 } 2 ms	
	⋮	⋮
	383 } 391 ms	
⋮	⋮	⋮
ZUI	0 } 3 ms	
	⋮	⋮
	201 } 223 ms	
⋮	⋮	⋮

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